Chemistry Report for Case # P-18-0137

General

Submitter: Wacker Chemical Corporation

Contact: Michael C. Strong **Contact Telephone No.:** (517) 264-8354 ext. 8354

TS No.: MR18SC

Chemist: Yakal, Randy **Contractor Support:** Y

PV Init (kg/yr): [redacted] **PV Max (kg/yr):** [redacted]

Binding Option: ☐ **Exposure-Based Review:** ☑

Manufacture: ☐ **Import:** ☑

CAS Number: [redacted]

Chemical Name [redacted]

Trade Name: SILRES BS 1703

IES Order: None

Generic Name: Alkylsilsesquioxane, ethoxy-terminated

Chemical Structure

[redacted]

Physical Chemical Properties

Molecular Formula: [redacted]	**Molecular Weight** [redacted]
% < 500 [redacted]	**% < 1000:** [redacted]
MP:	**MP Estimate:**
BP:	**BP Pressure:**
BP Estimate: [redacted]	
VP (Torr):	**VP Estimate (Torr):** [redacted]
Water Solubility (g/L):	**Water Soluble Estimate (g/L):** [redacted]
Log P:	**Log P Estimate:**
Physical State — Neat: Liquid	**Physical State — Manuf:** [redacted]

Physical State — Processing: [redacted]

Physical State — End Use: Destroyed

Additional Chemical Info

The
structures drawn are representative. The submitter stated that the PMN material has a 3-dimensional structure incorporating [redacted] feedstock monomers.
Submitted data: [redacted]

Estimated data:
high boiling point and negligible vapor pressure (high MW silicon-based polymer).

[redacted]

Uses

Consumer Use? No

Use:	Water repellent for fiber-reinforced cement products, like fiber-cement board. The PMN material significantly reduces the capillary water absorption of the construction materials after setting and reaching equilibrium moisture.
Other Uses:	[redacted]

[redacted]

Reaction Description

The
PMN material is imported and a detailed manufacturing process was not provided by the submitter. The proposed synthesis is based upon the name of the PMN material. [redacted]

Pollution Prevention Analysis(P2 Analysis:)

P2
Claims: [redacted]

Analogs

Analogs:
[redacted]

Comments/Telephone Log

Artifact	Update/Upload Time
[redacted]	[redacted]